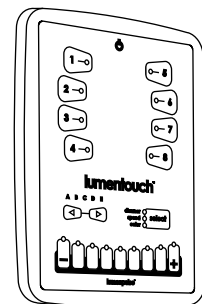# SPECIFICATION SHEET

Client: _____

Project name: _____

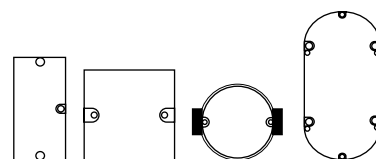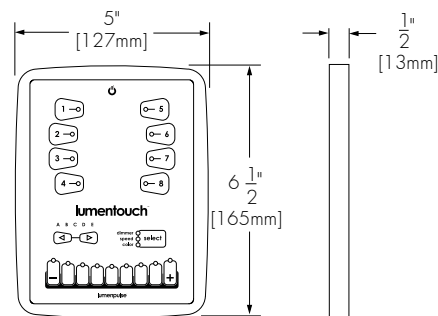Order #: _____

Type: _____ Qty: _____

FEATURES AND BENEFITS

- Flat wall mounted lighting controller
- Universal mounting plate compatible with any electrical backbox
- MINI-USB connection for software programming
- Can be used without a computer in stand alone mode
- Touch sensitive control panel
- 2 DMX universes (1024 channels)
- Unlimited memory via Micro SDCARD
- Integrated clock/calendar
- RS 232 serial and I/O ports
- Universal infrared receiver
- **Standard with ETHERNET card**
- Lumentouch is supplied with the Lumenstudio programming software

PACKAGE CONTENT

- Lumentouch hardware (stand alone wall mounted DMX controller)
- User manual
- Mini-USB cable
- Micro SDCARD and adapter
- 9V DC power supply (120-240V AC input voltage)
  with connector block for DMX connection
- Compatible with Windows XP, VISTA and 7 (32-bit or 64-bit)

5"
[127mm]

$\frac{1}{2}$"
[13mm]

6$\frac{1}{2}$"
[165mm]

Universal back mounting plate
Hole pattern to fit most standard junction boxes

HOW TO ORDER

LTO

Housing

1

* Please remove protective film before use to ensure proper operation of the controller.

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CONNECTIONS

128 mm

168 mm

11,5 mm

Touch-sensitive user interface

Extension socket rear connectors (2x10 pins)

Ethernet socket (RJ45)

Screw-terminal rear connector (9 pins)

Front access connections (open cover)

reset button | mini USB | power led | on / off switch | micro sdcard | data led

Package	Interface, sdcard, datasheet, cdrom, usb cable
Software	Lumenstudio
Standards	EC, EMC, ROHS, ETL, UL (some are in process)
Temperature	-10ºC to 50ºC
Dimensions	168x128x11,5 mm Complete package 250x150x55 mm
Weight	0,2 kg 0.44 lbs Complete package 0,6 kg 1.32 lbs

SPECIFICATIONS / CONNECTIONS		Built-in features	screw-terminal rear connector (9 pins)	extension socket rear connectors (2x10 pins)	front access connections (open cover)
Power Supply	9V DC 0.65A, supplied		•		USB
DMX Output #1	First universe, 512 channels DMX512 output		•	•	
DMX Output #2	Second universe, 512 channels DMX512 output **(*)**			•	
USB	USB 2.0 communication for PC/software				•
Ethernet	Advanced networking features	•			
Ports 1,2,3,4	4 Contact closure inputs, connect to ground for operating		•	•	
Ports 5,6,7,8	4 Contact closure inputs, connect to ground for operating			•	
User interface	14 buttons, 1 fader, 28 leds (Touch-sensitive keypad)	•			power/data leds
SDCARD	Micro sd card for stand alone memory use (supplied)				•
RESET	Push button for reset operation				•
RS232	RS232 Serial communication for external synchronisation			•	
Output relay	Automatic Stand by 5V signal			•	
Clock	Real time clock and calendar	•			
Infrared receiver	Easy learning triggering from any 36Khz remote control	•			

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INSTALLATION

PORT 1,2,3,4 : If your application need to have some external contact closures, make the contacts between the ground and the ports

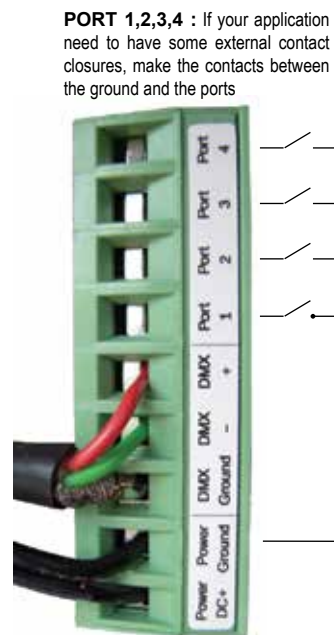### 1. Mount an electrical box inside the wall

The S.T.I.C.K. controller can be installed in any standard electrical backbox. If you use a double size box, you can insert the power supply inside.

2. Connect the wires

DMX: Connect the DMX cable to the lighting receivers (Leds, Dimmers, Fixtures..)
(for XLR: 1=ground 2=dmx- 3=dmx+)

POWER: Connect a 9V DC 0.65A.
Be sure to not invert the + and the ground.

3. Mount the interface on the wall

First, mount the back side of the interface on the wall with 2 or more screws

Secondly, plug the 2 connectors (see blue arrow)
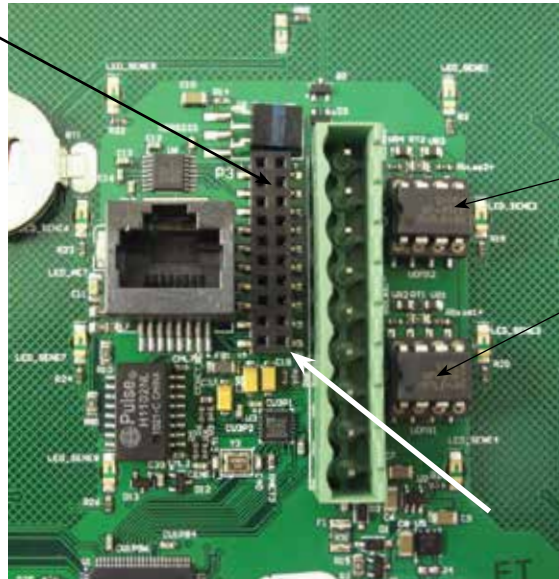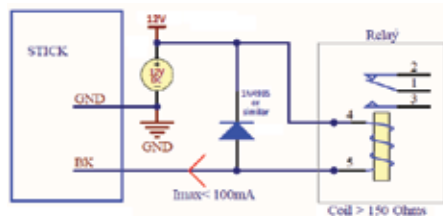
Then, close the interface, using one screw

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EXTENSION CONNECTORS

2x10 pins EXTENSION connector

RS232 TX	1	2	GND_DMX
RS232 RX	3	4	DMX1-
PORT7	5	6	DMX1+
PORT6	7	8	DMX2-
PORT5	9	10	DMX2+
PORT4	11	12	Relay
PORT3	13	14	3.3V
PORT2	15	16	IR_RX
PORT1	17	18	GND
PORT0	19	20	VIN

You can easily replace DMX CHIPS

DMX universe #2

DMX universe #1

Ref:
SP485ECP-L
MAX485CPA+

PORTS 1 to 8   make contacts between G (GND) and P1..P8

BLACKOUT relay (energy save) using the 2 pins : BK and G (GND)

RS232 triggering

The command string for selecting scenes is;
01 XX FF - where XX equals the scene number with 2 digits

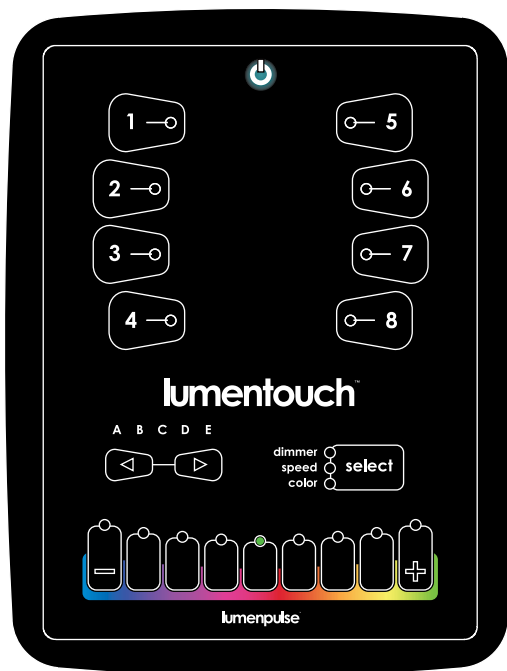So to select scene 01, which is Page A scene 1 the string is;
0101FF

To select scene 11, which is Page B scene 3 the string is;
0111FF

Notes:
- RS232 triggering is only for selecting / playing scenes on the LTO
- The scenes you want to select / play must be programmed to the buttons on the LTO
- The RS232 triggering must be enabled / checked ON in LTPO Hardware Tools, under Parameters
- The RS232 connections must be landed on the LTO, via the COM Plus or External LTO Connector
- The TX and RX must be crossed over, aka TX to RX and RX to TX, Ground still goes to Ground
- All command strings must be sent as HEX values
- Com settings are 9600 baud, 8 bit, 2 stop bits, no parity, no hardware flow

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PROGRAMMING

Some functions are available directly from the STICK keypad using the SELECT button.

		Example
SELECT + 1	View time	Example : view 2:45pm = 14:45 = 1445 1445 = 2:45pm (USA) or 14:45 (Europe)
SELECT + 2	View date	Example : view 6 SEP. 2009 date = 060909 060909 = September 6th 2009
SELECT + 3	Set time	Example : set 3:30pm = 15:30 = 1530 1 5 3 0 = 1530
SELECT + 4	Set date	Example : set 5 DEC 2008 date = 051230 0 5 1 2 0 8 = 051208
SELECT + 5	Set Fade time	Example : set 01'32" fade time = 1 minute and 32 seconds = 0132 0 1 3 2 = 0132
SELECT + 9	Set IR	Example : assign an IR key to Scene #2 2 +
SELECT + 0	Firmware version	Example : view 1.02 firmware version = 0102 0102 = firmware version 1.02

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